

Note on the Orbit of Juno. By A. M. W. Downing, M.A.

The following comparison of the observations of *Juno* made with the Transit Circle of the Royal Observatory, Greenwich, near the time of opposition in 1890, with (i.) the tabular places of the *Nautical Almanac*, and (ii.) with an ephemeris computed from the elements published in *Monthly Notices*, vol. 1. p. 495, which the Astronomer Royal kindly permits me to publish, may be of interest.

Day, 1890.	Error of Tabular R.A.		Error of Tabular N.P.D.	
	I.	II.	I.	II.
May 5	^s -4.08	^s +0.21	-5.64	+0.86
12	-3.99	+0.37	-7.08	-0.48
20	-4.24	+0.17	-6.01	+0.59
21	-4.31	+0.11	-5.82	-0.78
26	-4.39	+0.04	-5.05	-1.55
30	-4.28	+0.14	-5.62	+0.88
June 4	-4.40	+0.01	-8.19	-1.79
6	-4.49	-0.09	-4.71	+1.69
Mean ...	-4.27	+0.12	-6.02	-0.07

Blackheath:

March 1891.

Observations of the Planet Victoria and Comparison Stars made with the Transit Circle of the Radcliffe Observatory, Oxford, during the Opposition of 1889.

(Communicated by E. J. Stone, M.A., F.R.S., Radcliffe Observer.)

Observations of the Planet Victoria.

[The N.P.D.'s are corrected for Refraction but not for Parallax.]

Greenwich Mean Time of Observation.	Observer.	Observed Magnitude.	R.A.		Apparent Places.		N.P.D.		Observer's Remarks.
			h	m	s	°	'	"	
June 25	F. B.	...	19	59	11.31	96	38	55.14	Very faint, hazy.
26	R.	9-8	19	58	39.91	96	31	24.23	
July 5	R.	8-9	19	52	48.77	95	33	35.32	
10	R.	8	19	48	54.37	95	9	59.63	Good.
18	F. B.	...	19	42	13.19	94	45	47.68	Very faint, bad definition ; observed in dark field.
23	R.	8-9	19	38	4.55	94	39	23.76	
27	F. B.	...	19	34	56.99	94	38	51.48	Very faint, diffused.
29	W.	...	19	33	29.26	94	40	6.33	
Aug. 3	F. B.	...	19	30	12.90	94	47	0.87	
5	F. B.	8-9	19	29	5.24	94	51	11.99	
6	R.	...	19	28	33.82	94	53	34.07	
15	F. B.	9	19	25	17.87	95	21	46.48	Faint.
17	F. B.	9-10	19	24	56.84	95	29	24.01	Faint ; observed in dark field.
29	F. B.	10-9	19	25	54.51	96	20	49.87	